

**AUGUST 31, 2006**  
~~AUGUST 31, 2004~~  
**CONTRACT PERIOD THROUGH AUGUST 31, 2003**

TO: All Departments

FROM: Department of Materials Management

SUBJECT: Contract for **MULTI-GAS CALIBRATOR**

Attached to this letter is published an effective purchasing contract for products and/or services to be supplied to Maricopa County activities as awarded by Maricopa County on **AUGUST 22, 2002.**

All purchases of products and/or services listed on the attached pages of this letter are to be obtained from the vendor holding the contract. Individuals are responsible to the vendor for purchases made outside of contracts. The contract period is indicated above.

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Wes Baysinger, Director  
Materials Management

CH/jmk  
Attach

Copy to: Clerk of the Board  
L. G. Mace, Environmental Services  
Sharon Tohtsoni, Materials Management

SPECIFICATIONS ON INVITATION FOR BID FOR: **MULTI-GAS CALIBRATOR**

1.0 **INTENT:**

The intent of this Invitation for Solicitation is to establish a contract for the items specifically listed herein. Also included are blanket discounts for related supplies as covered by current pricing documents. Amendments, supplements and/or revisions will be effective upon receipt and approval of notice to the Department of Materials Management.

Also the intent of this Call for Bid is to establish a one (1) year source of supply for USEPA approved multi-gas calibrators listed below and in addition, a blanket discount for related parts, supplies, and calibration or maintenance equipment as covered by current pricing documents.

All calibrations, repairs and adjustments to proposed equipment shall be able to be accomplished by competent technicians at the local Maricopa County facility. Any activity that must be, or is recommended to be, performed at the factory shall be indicated and the estimated annual cost itemized in the bids.

Cost of training by direct factory employed personnel shall be provided for both factory and on site (Maricopa County) locations.

Cost per man-hour for non-warranty, factory level, repair of the proposed equipment shall be provided in the bid.

The County desires a minimum of two (2) years warranty coverage for parts and labor. Vendors state additional coverage costs (if any) in the pricing section of the bid.

2.0 **TECHNICAL SPECIFICATIONS:**

ITEM DESCRIPTION	VENDOR PROPOSAL
2.1 MULTI-GAS CALIBRATOR: (Five or more units required):	
2.1.1 General:	
2.1.1.1 The Multi-Gas Calibrator shall meet or exceed the performance requirements of USEPA 40 CFR Part 51.	
2.1.1.2 The calibrator shall be self contained and capable of precise dilution of high concentration Protocol-1 or certified gas cylinders to a variable range of concentrations from high to low parts per million.	
2.1.2 Requirements - Minimum	
2.1.2.1 The multi-gas calibrator shall operate on standard 115 VAC 50/60Hz power.	
2.1.2.2 The calibrator shall be microprocessor controlled.	
2.1.2.3 The calibrator shall contain an internal programmable ozone generator utilizing the Ultraviolet Photometric principle.	
2.1.2.4 The calibrator shall generate precise calibration gases for O <sub>3</sub> , NO, NO <sub>2</sub> , CO and SO <sub>2</sub> .	
2.1.2.5 The calibrator shall be insensitive to flow variations.	

2.0 **TECHNICAL SPECIFICATIONS:** (continued)

	ITEM DESCRIPTION	VENDOR PROPOSAL
2.2	MULTI-GAS CALIBRATOR: (continued):	
	2.2.1.1 The calibrator shall have a full front panel alphanumeric display.	
	2.2.1.2 The calibrator shall have internal diagnostics available through the front panel displays.	
	2.2.1.3 The calibrator output shall have a linearity of 0.1% or better with an accuracy of $\pm 1\%$ or better.	
	2.2.1.4 The calibrator shall have a standard mass flow controller flow range for dilution of 0-10 SLPM.	
	2.2.1.5 The calibrator shall have a standard mass flow controller flow range for gases of 0-100 cc/minute.	
	2.2.1.6 The calibrator shall have a manual flow adjustment to allow the operator to set the flow rate in the field.	
	2.2.1.7 The calibrator shall have a flow measurement accuracy of $\pm 1.0\%$ or better.	
	2.2.1.8 The required calibration cycle for the calibrator shall be 6 months or greater.	
	2.2.1.9 The calibrator case shall be designed for bench or shelf mounting and shall include rack mount brackets for installation in standard cabinets.	
	2.2.1.10 The calibrator total weight shall be 40 pounds or less for ease of handling.	
	2.2.1.11 The bid shall include a list of repair parts and an associated price list with any applicable discounts.	
	2.2.1.12 The bid shall include an itemized estimate of the annual cost of consumable supplies.	
	2.2.1.13 The bid shall include an example of the operational and equipment service manuals including calibration procedures.	
	2.2.1.14 The bid shall include prices for any equipment or special tools required for local maintenance, adjustment or calibration of the multi-gas calibrator.	

**2.3 SUPPORTIVE SPECIFICATION:**

**2.3.1 DESCRIPTION:**

Each bid shall include a complete description of the equipment to be furnished including manufacturer, model number or other identification, descriptive literature and specification/data sheet.

**2.3.2 REPLACEMENT PARTS:**

Replacement parts for the proposed equipment shall be available for at least five (5) years from date of purchase.

**2.3.3 FACTORY AUTHORIZED SERVICE:**

The successful bidder shall be capable of providing support for the repair and maintenance of proposed equipment. The facility shall be capable of the following functions:

2.3.3.1 Troubleshooting, repairing and maintaining the proposed equipment deemed to be beyond local repair capability.

2.3.3.2 Supplying repair parts for user repair and maintenance of the equipment. Common failure parts and expendable items shall be available and shipped within 3 to 5 working days. Other parts shall be shipped within 2 to 3 weeks of receiving the request.

2.3.3.3 Providing telephone support to resolve maintenance problems during normal service hours. Minimum service hours shall be from 8:00 A.M. to 5:00 P.M., Monday through Friday.

**2.3.4 INSTRUCTION AND REFERENCE MANUALS:**

Instruction manuals shall be written so that a qualified technician can read and effectively interpret the contents. One (1) comprehensive operational manual and equipment service manual, including full schematic diagrams shall be furnished with each unit ordered. These manuals shall include the following minimum sections:

2.3.4.1 Complete description of operation.

2.3.4.2 Theory of operation.

2.3.4.3 Complete schematic diagrams (full size).

2.3.4.4 Trouble shooting information including flow chart diagrams and chassis operating voltages.

2.3.4.5 Zero and span alignment instructions.

2.3.4.6 Detailed calibration instructions.

2.3.4.7 List of replacement parts including illustrated parts breakdown.

2.3.4.8 Installation and setup instructions.

## 2.4 ACCEPTANCE:

Upon successful completion of the performance period, the system shall be deemed accepted and the warranty period begins. All documentation shall be completed prior to final acceptance.

The bidder shall demonstrate to designated owner's representative and document the satisfactory operation and performance expectations as published by the manufacturer, the bid specifications and all other applicable requirements.

The bidder shall, at the owner's request, be able to provide complete and thorough training relevant to operation and maintenance to owner designated personnel.

One (1) operational manual of the system and components, in addition to maintenance instructions, calibration instructions and full schematics shall be provided with each ordered unit.

Any special tools, breakouts, and test jigs necessary to adjust, dismantle, or service the equipment shall be provided.

Final acceptance shall occur when all the above conditions are met.

The warranty period will be initiated upon acceptance.

### 2.4.1 GUARANTEE:

All equipment, units and components shall be guaranteed in accordance with the following clauses:

2.4.1.1 The successful bidder shall guarantee his product is free from defects in design and construction and that it will give continuous and efficient service under normal conditions for a period of 24 months from date of delivery. Failure to comply with this requirement shall result in immediate return of the merchandise at the expense of the bidder for prompt replacement with merchandise meeting the standards listed herein. Should the bidder not meet this condition, the County shall obtain its requirements on the open market and the contractor shall be obligated to assume excess costs, if applicable.

2.4.1.2 Guarantee that the equipment is the manufacturer's standard design and that no changes or substitutions have been made.

2.4.1.3 Guarantee and agree to replace promptly without cost of any nature to the County during the period of 24 months from date of delivery any and all parts failing because of defects in design and/or construction excepting those parts that may fail as a result of accident, fire, or negligence on the part of the operating personnel ("Promptly" in this case is defined to mean within 48 hours from time of demand).

## 2.5 FACILITIES:

During the course of this Agreement, the County shall provide the Contractor's personnel with adequate workspace for consultants and such other related facilities as may be required by Contractor to carry out its obligation enumerated herein.

## 2.6 TRAINING:

The successful Contractor shall provide a minimum of two (days) on-site (Maricopa County) training to completely train County personnel in the use and care of the equipment.

2.7 TAX:

No tax shall be levied against labor. Bid pricing to include all labor, overhead tools and equipment used, profit, and any taxes that may be levied. It is the responsibility of the Contractor to determine any and all taxes and include the same in bid price.

2.8 VENDOR'S PROPOSAL COLUMN:

Contractors are to complete the Vendor's Proposal Column and return it with their pricing. Failure to provide this information may result in rejection of the bid. Contractor should state that it will comply or will not comply.

2.9 DELIVERY:

Delivery is required F.O.B. **Destination**, freight pre-paid within thirty (30) days of receipt of Purchase Order, to any delivery location within Maricopa County as specified by the County. Contractor shall indicate on Pricing Documentation (Attachment A) any additional freight or handling charges that would be associated with special shipping and/or handling delivery.

2.10 INSTALLATION:

The Contractor's price shall include delivery in complete operating condition.

2.11 WARRANTY:

The minimum warranty period shall be twenty-four (24) months for both parts and labor. Warranty repair and/or replacement will be performed at no additional charge to Maricopa County. All warranty periods shall begin upon acceptance by the Using Agency.

2.12 FACTORY AUTHORIZED SERVICE AVAILABILITY:

The Contractor shall have and maintain an authorized service station within the Continental U.S.A.. The station shall be capable of supplying and installing component parts, and troubleshooting, repairing and maintaining the Materials. Minimum service hours shall be from 8:00 A.M. to 5:00 P.M., Monday through Friday.

2.13 OPERATING MANUALS:

Upon delivery, Contractor shall provide comprehensive operational manuals, Materials service manuals, and schematic diagrams, if required by the Using Agency.

2.14 TECHNICAL AND DESCRIPTIVE SALES LITERATURE:

Contractor shall provide copies of its sales literature and brochures, and copies of any manufacturer's technical and descriptive literature regarding the material it proposes to provide. Literature shall include sufficient in detail to allow full and fair evaluation of the offer submitted, and must be included with the bid. Failure to include this information may result in the bid being rejected.

2.15 ADDITIONAL PRICING:

Contractors are strongly encouraged to offer additional pricing for related items/products/components, which are not specifically addressed as line items in the Invitation For Bids. Pricing offered should be noted on the pricing pages of the Contractor response in the format requested. One sets of catalogs/pricing documents shall accompany any additional pricing offered.

2.16 CONTRACTOR REVIEW OF DOCUMENTS:

Contractor shall review its bid submission to assure the following requirements are met.

- 2.16.1 One (1) original of all submissions is MANDATORY
- 2.16.2 Vendor proposal column/section, MANDATORY
- 2.16.3 Pricing pages, MANDATORY
- 2.16.4 Literature, Technical and Descriptive, MANDATORY
- 2.16.5 Vendor Information, MANDATORY
- 2.16.6 Agreement page, MANDATORY
- 2.16.7 References (if required)

3.0 **SPECIAL TERMS & CONDITIONS:**

3.1 CONTRACT LENGTH:

This Invitation for Bids is for awarding a firm, fixed price purchasing contract to cover a one (1) year period.

3.2 OPTION TO EXTEND:

The County may, at their option and with the approval of the Contractor, extend the period of this Contract up to a maximum of four (4), one (1) year options. The Contractor shall be notified in writing by the Materials Management Department of the County's intention to extend the contract period at least thirty (30) calendar days prior to the expiration of the original contract period.

3.3 EXPEDITED DELIVERY:

If the Using Agency determines that rush shipping or other alternate shipping is required, it shall notify the Contractor. The Contractor shall determine any additional costs associated with such delivery terms and communicate that cost to the Using Agency via fax or other reasonable means.

The Using Agency shall not advise the Contractor to proceed with shipment until acceptable terms are negotiated and a purchase order is issued. Upon determining that the additional costs are reasonable and proper, the Using Agency shall advise the Contractor to proceed.

Upon receipt of material and invoicing, the Using Agency shall ensure that any additional charges are in compliance with and do not exceed those costs stated in the Contract. The Using Agency shall retain all documents related to these costs within the agency purchase order file, for audit purposes.

3.4 SHIPPING:

Bid prices shall be made F.O.B. **destination** to the Using Agency within Maricopa County. The Contractor shall retain title and control of all goods until they are delivered and the contract coverage has been completed. All claims for visible or concealed damage shall be filed by the Contractor. The County will notify the Contractor of any damaged goods and shall assist the Contractor in arranging for inspection.

3.5 SHIPPING DOCUMENTS:

A packing list or other suitable shipping document shall accompany each shipment and shall include the following:

- (1) Name and address of the Contractor;
- (2) Name and address of the County Agency;
- (3) County purchase order number;
- (4) A description of material shipped, including item number, serial number, quantity, number of containers and package number, if applicable.

3.6 TESTING:

Unless otherwise specified, Materials purchased will be inspected by the Using Agency to ensure the Materials meet the quality and quantity requirements of the Specifications.

3.7 PRODUCT DISCONTINUANCE:

In the event that a manufacturer discontinues a product and/or model, the County may allow the successful Contractor to provide a substitute for the discontinued item or may cancel the Contract. If the Contractor requests permission to substitute a new product or model, it shall provide the following to the County:

- 3.7.1 Documentation from the manufacturer that the product of model has been discontinued.
- 3.7.2 Documentation that names the replacement product or model.
- 3.7.3 Documentation that provides clear and convincing evidence that the replacement meets or exceeds all Specifications required by the original Invitation for Bids.
- 3.7.4 Documentation that provides clear and convincing evidence that the replacement will be compatible with all the functions or uses of the discontinued product or model.
- 3.7.5 Documentation confirming that the price for the replacement is the same as or less than the discontinued product or model.

Product discontinuance applies only to those items specifically listed on any resultant contract. This will not apply to catalog items not specifically listed on any resultant contract.

3.8 ORDERING AUTHORITY:

Contractors should understand that any request for purchase of materials or services shall be accompanied by a valid purchase order, issued by Materials Management, or by a CAPA (Certified Agency Procurement Aid). **CAPA purchases are limited to values of less than \$2,500.00. No other request is valid.**

3.9 INDEMNIFICATION:

3.9.1 Indemnification.

To the fullest extent permitted by law, Contractor shall defend, indemnify, and hold harmless the County, its agents, representatives, officers, directors, officials, and employees from and against all claims, damages, losses and expenses, including but not limited to attorney fees and costs, relating to this Contract.

The scope of this indemnification does not extend to the negligence of the County.

3.10 FAILURE TO EXECUTE:

Upon failure of the successful Contractor to execute the contract, the bid security shall be forfeited to the County, not as a penalty but as liquidated damages to offset the cost to the County of conducting another invitation for bids. Contractor acknowledges that the County's loss as a result of the Contractor's failure to execute a contract would be difficult to determine, and that the value of the bid security is a fair and reasonable estimate of what those damages might be.

3.11 PROCUREMENT CARD ORDERING CAPABILITY:

It is the intent of Maricopa County to utilize the Bank of America MasterCard Procurement Card, or other procurement card that may be used by the County from time to time, to place and make payment for orders under the Contract. Contractors without this capability may be considered non-responsive and not eligible for award consideration.



3.12 INTERNET ORDERING CAPABILITY:

It is the intent of Maricopa County to utilize the Internet to place orders under this Contract. Contractors without this capability may be considered non-responsive and not eligible for award consideration.

3.13 INQUIRIES AND NOTICES:

All inquiries concerning information herein shall be addressed to:

MARICOPA COUNTY  
DEPARTMENT OF MATERIALS MANAGEMENT  
ATTN: CONTRACT ADMINISTRATION  
320 W. LINCOLN ST.  
PHOENIX, AZ 85003

Administrative telephone inquiries shall be addressed to:

LARRY HALL, PROCUREMENT CONSULTANT, 602-506-8715  
(lhall@mail.maricopa.gov)

Technical telephone inquiries shall be addressed to:

L.G. MACE, ENVIRONMENTAL SERVICES, 602-506-6713

Inquiries may be submitted by telephone but must be followed up in writing. No oral communication is binding on Maricopa County.

4.0 **CONTRACT TERMS AND CONDITIONS:**

4.1 LANGUAGE FOR REQUIREMENTS CONTRACTS:

Contractors signify their understanding and agreement by signing this document, that the Contract resulting from this bid will be a requirements contract. However, this Contract does not guarantee any purchases will be made. It only indicates that if purchases are made for the materials contained in this Contract, they will be purchased from the Contractor awarded that item. Orders will only be placed when a need is identified by a Using Agency or department and proper authorization and documentation have been approved.

The Department of Materials Management reserves the right to cancel Purchase Orders within a reasonable period of time after issuance. Should a Purchase Order be canceled, the County agrees to reimburse the Contractor but only for actual and documentable costs incurred by the Contractor due to and after issuance of the Purchase Order. The County will not reimburse the Contractor for any costs incurred after receipt of County notice of cancellation, or for lost profits, shipment of product prior to issuance of Purchase Order, etc.

Contractors agree to accept verbal notification of cancellation from the Department of Materials Management with written notification to follow. By submitting a bid in response to the Invitation For Bids, the Contractor specifically acknowledges to be bound by this cancellation policy.

4.2 ESCALATION:

Any requests for reasonable price adjustments must be submitted thirty (30) days prior to the Contract expiration date. Justification for the requested adjustment in cost of labor and/or materials must be supported by appropriate documentation and must be within the PPI for the commodity. Increases are subject to approval in writing by the Materials Management Department prior to any adjusted invoicing submitted for payment.

**4.3 UNCONDITIONAL TERMINATION FOR CONVENIENCE:**

Maricopa County may terminate the resultant Contract for convenience by providing sixty (60) calendar days advance notice to the Contractor.

**4.4 TERMINATION FOR DEFAULT:**

If the Contractor fails to meet deadlines, or fails to provide the agreed upon service/material altogether, a termination for default will be issued. The termination for default will be issued only after the County deems that the Contractor has failed to remedy the problem after being forewarned.

**4.5 TERMINATION BY THE COUNTY:**

If the Contractor should be adjudged bankrupt or should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of its insolvency, the County may terminate this Contract. If the Contractor should persistently or repeatedly refuse or should fail, except in cases for which extension of time is provided, to provide enough properly skilled workers or proper materials, or persistently disregard laws and ordinances, or not proceed with work or otherwise be guilty of a substantial violation of any provision of this Contract, then the County may terminate this Contract. Prior to termination of this Contract, the County shall give the Contractor fifteen (15) calendar days written notice. Upon receipt of such termination notice, the Contractor shall be allowed fifteen (15) calendar days to cure such deficiencies.

**4.6 STATUTORY RIGHT OF CANCELLATION FOR CONFLICT OF INTEREST:**

Notice is given that pursuant to A.R.S. § 38-511 the County may cancel this Contract without penalty or further obligation within three years after execution of the contract, if any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of the County is at any time while the Contract or any extension of the Contract is in effect, an employee or agent of any other party to the Contract in any capacity or consultant to any other party of the Contract with respect to the subject matter of the Contract. Additionally, pursuant to A.R.S § 38-511 the County may recoup any fee or commission paid or due to any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of the County from any other party to the contract arising as the result of the Contract.

**4.7 OFFSET FOR DAMAGES:**

In addition to all other remedies at Law or Equity, the County may offset from any money due to the Contractor any amounts Contractor owes to the County for damages resulting from breach or deficiencies in performance under this contract.

**4.8 ADDITIONS/DELETIONS OF SERVICE:**

The County reserves the right to add and/or delete materials to this Contract. If a service requirement is deleted, payment to the Contractor will be reduced proportionately, to the amount of service reduced in accordance with the bid price. If additional materials are required from this Contract, prices for such additions will be negotiated between the Contractor and the County.

**4.9 SUBCONTRACTING:**

The Contractor may not assign this Contract or Subcontract to another party for performance of the terms and conditions hereof without the written consent of the County. All correspondence authorizing subcontracting must reference the Bid Serial Number and identify the job project.

The Subcontractor's rate for the job shall not exceed that of the Prime Contractor's rate, as bid in the pricing section, unless the Prime Contractor is willing to absorb any higher rates. The Subcontractor's invoice shall be invoiced directly to the Prime Contractor, who in turn shall pass-through the costs to the County, without mark-up. A copy of the Subcontractor's invoice must accompany the Prime Contractor's invoice.

**4.10 AMENDMENTS:**

All amendments to this Contract must be in writing and signed by both parties.

**4.11 RETENTION OF RECORDS:**

The Contractor agrees to retain all financial books, records, and other documents relevant to this Contract for five (5) years after final payment or until after the resolution of any audit questions which could be more than five (5) years, whichever is longer. The Department, Federal or State auditors and any other persons duly authorized by the Department shall have full access to, and the right to examine, copy and make use of, any and all said materials.

**4.12 ADEQUACY OF RECORDS:**

If the Contractor's books, records and other documents relevant to this Contract are not sufficient to support and document that allowable materials were provided, the Contractor shall reimburse Maricopa County for the materials not so adequately supported and documented.

**4.13 AUDIT DISALLOWANCES:**

If at any time it is determined by the Department that a cost for which payment has been made is a disallowed cost, the Department shall notify the Contractor in writing of the disallowance and the required course of action, which shall be at the option of the Department either to adjust any future claim submitted by the Contractor by the amount of the disallowance or to require repayment of the disallowed amount by the Contractor forthwith issuing a check payable to Maricopa County.

**4.14 VALIDITY:**

The invalidity, in whole or in part, of any provision of the Contract shall not void or affect the validity of any other provision of this Contract.

**4.15 RIGHTS IN DATA:**

The County shall have the use of data and reports resulting from this Contract without additional cost or other restriction except as may be established by law or applicable regulation. Each party shall supply to the other party, upon request, any available information that is relevant to this Contract and to the performance hereunder

**TELEDYNE ADVANCED POLLUTION INSTRUMENTATION INC., 6565 NANCY RIDGE DRIVE, SAN DIEGO, CA 92121-2251**

WILLING TO ACCEPT FUTURE SOLICITATIONS VIA EMAIL: ☒ YES ☐ NO

WILL YOUR FIRM ACCEPT A PROCUREMENT CARD FOR INVOICE PAYMENT? ☒ YES ☐ NO

IF YES, MAY THE COUNTY TAKE ADVANTAGE OF DISCOUNTS OFFERED BY YOUR FIRM IN THIS BID/RFP WHEN PAYING WITH A PROCUREMENT CARD? ☐ YES ☒ NO

INTERNET ORDERING CAPABILITY: ☒ YES ☐ NO  % DISCOUNT

OTHER GOV'T. AGENCIES MAY USE THIS CONTRACT: ☒ YES ☐ NO

PRICING SHEET C66 36 01/B0604262

**PRICING:**

NOTE: DO NOT INCLUDE SALES/USE TAX IN YOUR BID PRICE. The percentage of sales/use tax applicable to this contract will be listed on the purchase order and allowed at time of payment. BIDDERS CERTIFY BY SIGNING THIS AGREEMENT THAT PRICES BID ARE F.O.B. DESTINATION IN ACCORDANCE WITH THE TERMS AND CONDITIONS SET FORTH HEREIN.

**Section A.**

1. Multi-gas Calibrator: \$ 10,658.35 ~~8,661.13~~ ~~10,148.63~~

Manufacturing & Product #: Teledyne API, Model 700 w/Options 1, 2, 21, 92

Warranty (2 yrs. Min.) define: Option 92, two year warranty included

Estimated annual cost of consumable supplies, per unit: \$ 0.00

Repair Parts/Consumables Listing (to include calibration and testing equipment and other items necessary for the maintenance and operation of the unit(s) offered)  
(list below catalog/price list, effective date and discount offered):

<u>Catalog/Price Listing</u>	<u>Effective Date</u>	<u>Discount from list</u>
M700 PARTS LIST	JULY 1, 2001	0%
ATTACHED HARD COPY		

List below (define) labor rates, conditions for repair/service:  
ATTACHED HARD COPY OF SERVICE RATES AND CONDITIONS

County location:	<u>\$1000/DAY</u>
\$1000/DAY + ACTUAL EXPENSES	
Vendor location:	<u>\$125/HOUR</u>
\$125/HOUR	
Cost of additional Operational and Equipment Service Manuals	<u>\$ 90</u>
(One set to be provided free with each purchased analyzer)	

PDF VIA E-MAIL \$ 0.00

List below training costs on maintenance, operation and installation of the offered equipment.

County location:	INCLUDED IN BID PRICE	<u>\$0.00</u>
Vendor location:	INCLUDED IN BID PRICE	<u>\$0.00</u>

**TELEDYNE ADVANCED POLLUTION INSTRUMENTATION INC., 6565 NANCY RIDGE DRIVE, SAN DIEGO, CA 92121-2251**

**API MODEL 700 SPARE PARTS LIST**

	DESCRIPTION	
020400000	API Model 700 Spare Parts List Basic (includes 03 and GPT):	
002760500	CPU Board (700 AMX)	\$1,378
004020700	Assembly, Pressure Sensor Board	\$648
004020800	Assembly, Pressure/Flow Board	\$410
005140300	V/F Board	\$938
005350100	Assembly, Detector Pre-amplifier	\$616
005940200	03 Generator	\$1,905
006120200	Assembly, Ozone Generator Lamp w/ Pigtail	\$369
007040000	Keyboard	\$197
007280000	NEW Display	\$544
011390100	Assembly, Power Supply Module - 115V/60Hz	\$1,830
011390300	Assembly, Power Supply Module - 220V/50Hz	\$2,060
011390500	Assembly, Power Supply Module - 240V/50Hz	\$1,980
013830000	GPT Reaction Volume (OBSOLETE use P/N 028240000)	\$0
013880000	Assy, Vent Manifold, M700	\$442
014530100	Mass Flow Controller, 50 CCM	\$3,633
014540100	Mass Flow Controller, 100 CCM	\$3,633
014550100	Mass Flow Controller, 10 LPM	\$3,633
014570000	Assy, Inlet Manifold, M700	\$1,697
014940000	Charcoal Scrubber Assembly	\$170
014990000	Regenerative Scrubber Assembly	\$974
015090000	UV Lamp Power Supply	\$1,154
015090300	Assembly, 03 Gen Lamp Power Supply, M700f7O2	\$797
015640100	Assembly, Valve Driver Board	\$993
016900000	M700 Level 1 Spare Parts Kit (for 10 units)	\$0
016900100	M700 Spares Kit for 1 Unit (includes 03 and GPT)	\$0
024710000	Tubing: 6', 1/8" CLR	\$16
024750000	Tubing: 6', 1/4" TYGON	\$18
024780000	Tubing: 6', 1/4" OD 5/32" ID CLR	\$51
028240000	GPT Reaction Volume	\$319
FA0000010	Fan	\$75
FM0000007	Pressure Regulator	\$489
FT0000106	Elbow Union, Stainless Steel, 1/4"	\$52
HE0000018	Heater, 50W (IZS)	\$85
HW0000120	Shockmount, J-3112-39-2	\$6
HW0000123	Shockmount, Pump	\$6
KIT0000099	Retrofit, M700 with Photometer (Inst. must be returned to API for retrofit)	\$4,454
KIT0001 11	Replacement, CBL, MFC1, "SLM", M700	\$40
KIT0001 12	Replacement, CBL, MFC2, "SLM", M700	\$41
OP0000012	UV Detector	\$482
PS0000013	15V Switching Power Supply	\$173
SW0000006	Overheat SW, Cell/Oven	\$15
SW0000019	Pressure Sensor, 30 PSIG	\$262
VA0000023	Valve, Gas Shut-off	

MINIMUM ORDER - \$50

SUBJECT TO CHANGE WITHOUT NOTICE

PARTS PRICE LIST  
EFFECTIVE JULY 1, 2001

**TELEDYNE ADVANCED POLLUTION INSTRUMENTATION INC., 6565 NANCY RIDGE DRIVE, SAN DIEGO, CA 92121-2251**

**API MODEL 700 SPARE PARTS LIST (Continued)**

**PHOTOMETER:**

	DESCRIPTION	
001760400	Flow Control	\$131
003290000	Thermistor Assembly (885-071600)	\$37
003290400	Thermistor Assembly	\$37
004020800	Assembly, Pressure/Flow Board	\$410
005080000	Absorption Tube	\$106
005260200	UV Lamp Assembly, Source	\$410
005350000	Pre-Amplifier Assembly, M400/M700 Detector	\$683
005660300	Optical Bench (M700)	\$2,553
006110000	Assembly, Heater/Thermistor	\$73
016890000	M700 Level 1 Photometer Spares Kit	\$0
016890100	M700 Photometer Spares Kit for 1 Unit	\$0
FL0000001	Sintered Filter (002-024900)	\$3
FM0000004	Flow Meter, 0-1000 cc	\$319
HW0000123	Shockmount, Pump	\$6
PU0000020	Pump, 115V 50/60 Hz	\$572
PU0000022	Pump Rebuild Kit. KNF Model #N05AT1	\$57
SW0000008	Pressure Sensor	\$291
VA0000033	3-Way Solenoid Valve, Teflon, 12V	\$357

**PERM TUBE:**

	DESCRIPTION	
HE0000017	Heater, Reaction Cell. 12W	\$83
OR0000046	O-Ring, Permeation Oven	\$3
VA0000024	Manifold Valve, 3-Way, Vent	\$226

MINIMUM ORDER - \$.50

SUBJECT TO CHANGE WITHOUT NOTICE

PARTS PRICE LIST

EFFECTIVE JULY 1, 2001

**API MODEL 700 LEVEL 1 SPARE PARTS KIT (FOR 10 UNITS)**

	DESCRIPTION	
016900000	M700 Level 1 Spare Parts Kit (for 10 units) INCLUDES:	\$1,156
006120200	Assembly, Ozone Generator Lam w/ Pigtail	\$369
028240000	GPT Reaction Volume	\$319
FA0000010	Fan	\$75
HE0000018	Heater, 50W (IZS)	\$85
VA0000023	Valve, Gas Shut-off	\$309

**TELEDYNE ADVANCED POLLUTION INSTRUMENTATION INC., 6565 NANCY RIDGE DRIVE, SAN DIEGO, CA 92121-2251**

**API MODEL 700 LEVEL 1 PHOTOMETER SPARES KIT**

	DESCRIPTION	
016890000	M700 Level 1 Photometer Spares Kit INCLUDES:	\$683
003290000	Thermistor Assembly (885-071600)	\$37
005080000	Absorption Tube	\$106
005260200	UV Lamp Assembly, Source	\$410
006110000	Assembly, Heater /Thermistor	\$73
PU0000022	Pump Rebuild Kit, KNF Model #N05AT1	\$57

MINIMUM ORDER - \$50

SUBJECT TO CHANGE WITHOUT NOTICE

**API MODEL 700 SPARES KIT FOR 1 UNIT**

	DESCRIPTION	
016900100	1M700.SparesKitfor 1 Unit (includes 03 and GPT).INCLUDES:	\$456
FA0000010	Fan	\$75
VA0000023	Valve, Gas Shut-off	\$155
VA0000024	Manifold Valve, 3-Way, Vent	\$226

**API MODEL 700 PHOTOMETER SPARES KIT FOR 1 UNIT**

	DESCRIPTION	
016890100	M700 Photometer Spares Kit for 1 Unit INCLUDES:	\$1471
003290000	Thermistor Assembly 885-071600)	\$37
003290400	Thermistor Assembly	\$37
006110000	Assembly, Heater/Thermistor	\$73

MINIMUM ORDER - \$50

SUBJECT TO CHANGE WITHOUT NOTICE

**2.0 QTY – 1 MODEL 701 ZERO AIR SYSTEM \$ 3,325.00**

**OPTIONS:**

<b>2.1</b>	<b>QTY – 1</b>	<b>42 - EXPENDABLES KIT</b>	<b>\$ 490.00</b>
<b>2.2</b>	<b>QYY – 1</b>	<b>45 - SPARES KIT FOR ONE UNIT</b>	<b>\$ 421.00</b>
<b>2.3</b>	<b>QTY – 1</b>	<b>72 - 20 SLPM @ 30 PSI COMPRESSED AIR SOURCE</b>	<b>\$ 380.00</b>
<b>2.4</b>	<b>QTY – 1</b>	<b>92 – TWO YEAR WARRANTY</b>	<b>\$ 100.00</b>

**SERVICE RATES**

The following prices and policies are in effect as of January 1, 1998 to cover the Service operations at API.

**In-Field Service:**

Upon customer request and accompanying purchase order, API will have a Customer Service representative visit the customer site for the purpose of analyzer repair. The customer will be billed at the following rates and will be responsible for all reasonable travel and living expenses.

**Labor:** \$1,000 per day or \$1,400 per day for Sundays and legal holidays

**TELEDYNE ADVANCED POLLUTION INSTRUMENTATION INC., 6565 NANCY RIDGE DRIVE, SAN DIEGO, CA 92121-2251**

**Layover Labor Rate:** Normal labor rates. In the event the work cannot be performed due to acts of nature, labor problems, non-operation of facility, etc.

**Travel Time:** \$125 per hour if travel time is less than 4 hours.  
\$1,000 (\$1,400 for Sundays and legal holidays) if travel time is greater than 4 hours.

**Travel Expenses:** Customer will be billed for actual expenses incurred by API representative.

**Minimum Charge per Service Call:** \$1,000 (1 working day)

**Factory Service:**

If a customer elects to return an analyzer to the factory for service/repair, the analyzer will be examined to diagnose possible problems. The customer will then be contacted by phone or fax and given an estimate of cost to repair. Upon customer approval, the repair will be completed at the following labor rates:

**Diagnosis Charge:** \$125 per hour to diagnose problem (credited toward actual repair costs)  
**Technician Labor:** \$125 per hour  
**Parts & Material:** List price will apply  
**Minimum Charge:** \$600 (includes diagnosis charge)

If a sub-assembly or module is returned to the factory for repair, the following charges will apply:

**Technician Labor:** \$125 per hour  
**Part & Materials:** List price will apply  
**Minimum Charge:** \$250 (includes diagnosis charge)

CUSTOMER PAYS FREIGHT IN AND FREIGHT OUT.

**NOTE:**

*The above charges are for labor only. All parts and supplies needed will be itemized and charged at list price. Partial hours are charged at the full hour rate.*

K:\POLICIES\SERVICE RATES.doc

Terms: NET 30

Federal Tax ID Number: 33-0387046

Vendor Number: 330387046

Telephone Number: 858-657-9800

Fax Number: 858-657-9816

E-mail Address: [api-sales@teledyne.com](mailto:api-sales@teledyne.com) and [rick@phoenixinstrumentation.com](mailto:rick@phoenixinstrumentation.com)

Company Web Site: [www.teledyne-api.com](http://www.teledyne-api.com)

Contact Person: Troy Thayer / Local Rep: Rick Cooke

**AUGUST 31, 2006**

**AUGUST 31, 2004**

Contract Period: To cover the period ending **AUGUST 31, 2003**